

IN THE ABSTRACT:

Please amend the Abstract as indicated below:

5 A method and apparatus for the implementation of reduced state sequence
estimation is disclosed. ~~—, with an increased throughput using~~ that uses precomputation
(look-ahead) to increase throughput, with only a linear increase in hardware complexity
with respect to the look-ahead depth. The present invention limits the increase in
hardware complexity by taking advantage of past decisions (or survivor symbols). The
critical path of a conventional RSSE implementation is broken up into at least two
10 smaller critical paths using pipeline registers. Various reduced state sequence estimation
implementations are disclosed that employ one-step or multiple-step look-ahead
techniques to process a signal received from a dispersive channel having a channel
memory.

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